CLAIMS

1. A method for synchronizing a multi-mode base station using one clock, when the systems to be synchronized are a GSM-type telecommunications system and a WCDMA-type telecommunications system, the method comprising:

selecting the clock of the WCDMA-type system or a multiple thereof as the system clock of the multi-mode base station,

implementing the system clock of the GSM-type system using multiples of the frequency of the selected clock,

synchronizing the frame structure of the GSM-type system at intervals of thirteen frames or a multiple of thirteen frames.

2. A method as claimed in claim 1, wherein the system clock of the WCDMA-type system is 3.84 MHz.

3. A method as claimed in claim 1, wherein the system clock of the GSM-type system is 13 MHz.

4. A method as claimed in claim 1, wherein the WCDMA-type system is a UMTS system.

5. A method as claimed in claim 1, wherein the GMS-type system is GSM.

6. A method as claimed in claim 1, wherein the GMS-type system is GSM/EDGE.

7. A method as claimed in claim 1, wherein the GMS-type system is GPRS.

8. A method as claimed in claim 1, wherein the GMS-type system is EGPRS.

9. A method as claimed in claim 1, wherein the GMS-type system is IS-136HS.

10. An arrangement for synchronizing a multi-mode base station using one clock, when the systems to be synchronized are a GSM-type telecommunications system and a WCDMA-type telecommunications system, the arrangement comprising:

means (624, 628) for implementing the system clock of the GSM-type system using multiples of the frequency of the WCDMA-type system clock,

means (624, 626, 628) for synchronizing the frame structure of the GSM-type system at intervals of thirteen frames or a multiple of thirteen frames.

11. An arrangement as claimed in claim 10, wherein the system clock of the WCDMA-type system is 3.84 MHz.

12. An arrangement as claimed in claim 10, wherein the system clock of the GSM-type system is 13 MHz.

13. An arrangement as claimed in claim 10, wherein the WCDMA-type system is a UMTS system.

14. An arrangement as claimed in claim 10, wherein the GMS-type system is GSM.

15. An arrangement as claimed in claim 10, wherein the GMS-type system is GSM/EDGE.

16. An arrangement as claimed in claim 10, wherein the GMS-type system is GPRS.

17. An arrangement as claimed in claim 10, wherein the GMS-type system is EGPRS.

18. An arrangement as claimed in claim 10, wherein the GMS-type system is IS-136HS.

19. A multi-mode base station using one clock, comprising:

means (624, 628) for implementing the system clock of the GSM-type system using multiples of the frequency of the WCDMA-type system clock,

means (624, 626, 628) for synchronizing the frame structure of the GSM-type system at intervals of thirteen frames or a multiple of thirteen frames.20. A multi-mode base station using one clock, comprising:

implementing means (624, 628) implementing the system clock of the GSM-type system using multiples of the frequency of the WCDMA-type system clock,

synchronizing means (624, 626, 628) synchronizing the frame structure of the GSM-type system at intervals of thirteen frames or a multiple of thirteen frames.